MISSOURI MODIFIED STANDARD PENETRATION TEST (FOR SHALE)

THE TEST IS RUN IN THREE 6 INCH INCREMENTS. FOR SOIL, <u>NO</u> SEATING BLOWS ARE USED. FOR SHALE OR SOFT ROCK, <u>THREE</u> SEATING BLOWS ARE USED WHICH ARE NOT COUNTED.

- 1. Record the number of blows/6". Quit if 100 blows are achieved and record the penetration. (See 75' depth below.)
- 2. Record the number of blows for the first 6" increment. Quit if a total of 100 blows are achieved in the 1st and 2nd increments and record the penetration. (See 70' depth below.)
- 3. Continue into the 3rd increment when the blows for the 1st and 2nd increments do not total 100. If 100 blows are achieved as a total for both the 2nd and 3rd increments, quit and record the penetration for the 3rd increment. (See 65' depth below.)

NOTE: Do not total all 3 increments to achieve 100 blows.

SAMPLE LOG STANDARD PENETRATION TEST

Depth, ft.	Blows/6"	P.P. , *tsf
5'	6-8-10	1.50
10'	3-12-23	
65'	20-42-58 in 2"	
70'	40-60 in 4"	9.0+
75'	100 in 5"	9.0+

^{*} Pocket Penetrometer

CONVERSION TABLE FOR 100 BLOW TEST

Inches/100 Blows	Est. Equiv., Qu., tsf	
3.00	11.50	
4.00	8.50	
5.00	6.50	
6.00	5.50	
7.00	5.00	
8.00	4.50	
9-11	4.00	
12.00	3.75	